Tractor Trailer Truck

1.5.4 **Average Annual Carbon Dioxide Emissions for Various Functions** Annual Carbon Emissions **Unit Energy Consumption** (MMT CO2) (lb CO2) Stock Refrigerator 1,249 kWh - Electricity 1,800 0.80 Stock Electric Water Heater 2,549 kWh - Electricity 1.64 3,600 Stock Gas Water Heater 20 million Btu - Natural Gas 1.05 2,300 28 million Btu - Fuel Oil 4,500 Stock Oil Water Heater 2.07 107 million Btu Single-Family Home 11.86 26,100 Mobile Home 76 million Btu 8.39 18,500 Multi-Family Unit in Large Building 41 million Btu 4.53 10,000 78 million Btu Multi-Family Unit in Small Building 8.63 19,000 593,300 School Building 2,125 million Btu 269 Office Building 1,376 million Btu 174 384,200 Hospital, In-Patient 60,152 million Btu 7,617 16,794,600 Stock Vehicles Passenger Car 541 gallons - Gasoline 4.8 10,503 Van, Pickup Truck, or SUV 686 gallons - Gasoline 13,324 6.0 Heavy Truck 1,414 gallons - Diesel Fuel 12.8 28,334

Source(s): EIA, Annual Energy Outlook 2008, Mar. 2008, Table A2, p. 117-119 for consumption and Table A18, p. 144 for emissions, and Table G1, p. 215 for gasoline heat rate; EIA, A Look at Residential Energy Consumption in 2001, May 2004, Table CE4-1c for water heater energy consumption, Table HC5-1a for refrigerators and Table CE5-1c for refrigerator energy, and Table CE1-4c for household consumption; EIA, 2003 Commercial Buildings Energy Consumption Survey, June 2006, Table C3, p. 247 for commercial buildings; ORNL, Transportation Energy Data Book: Edition 26, 2007, Table 4.1, p. 4-2, Table 4.2, p. 4-3, Table 5.1, p. 5-2 and Table 5.2, p. 5-3 for vehicles; and EIA, Assumptions to the AEO 2008, June 2008, Table 2, p. 9 for carbon coefficients.

106.3

234,391

11,697 gallons - Diesel Fuel